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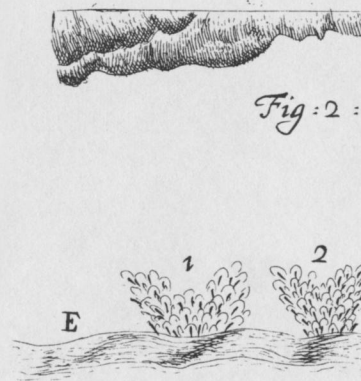
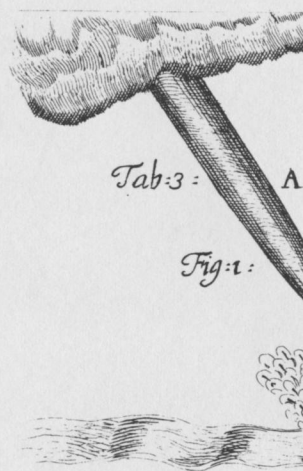
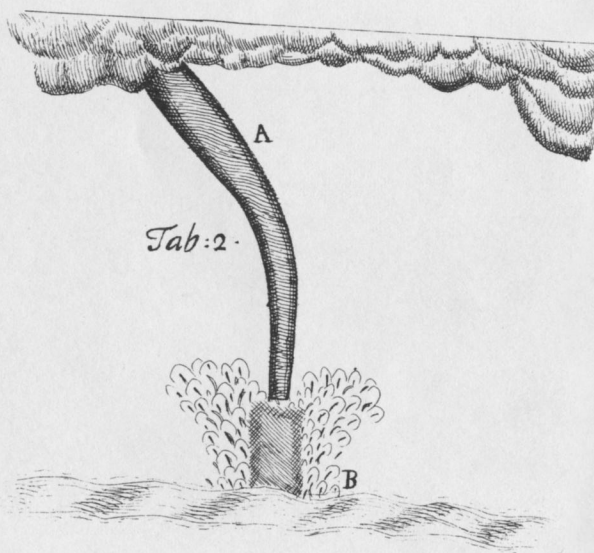
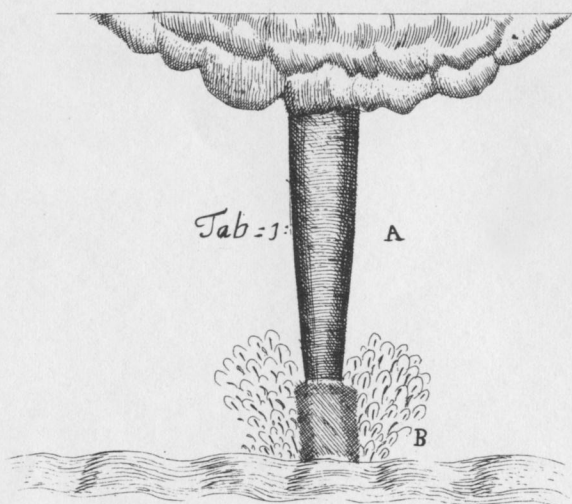
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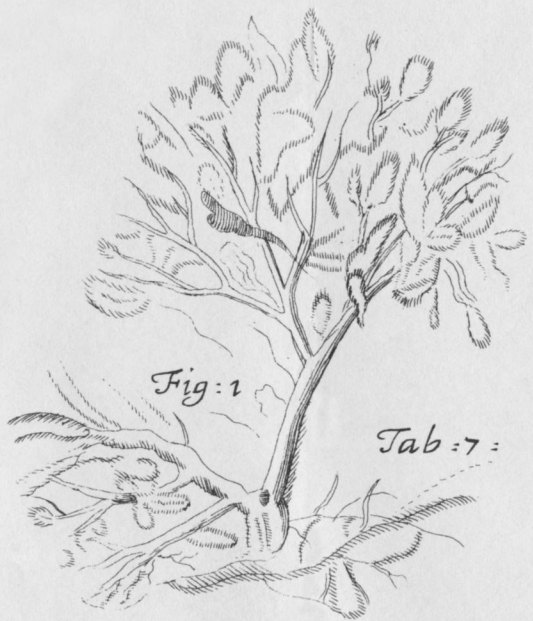
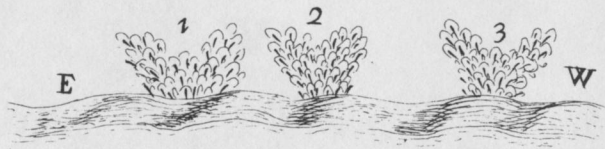
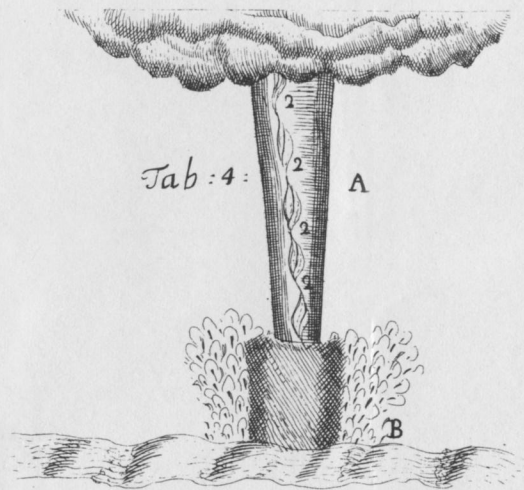
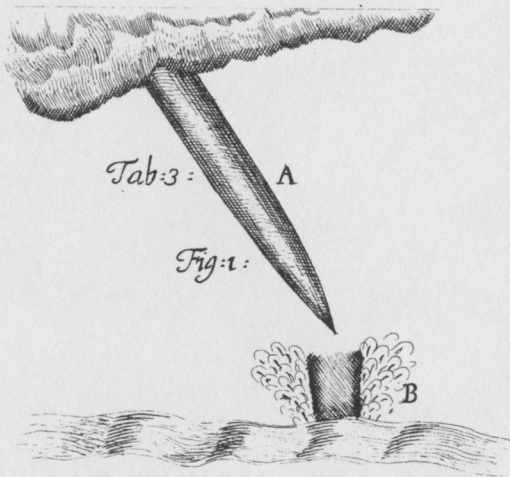
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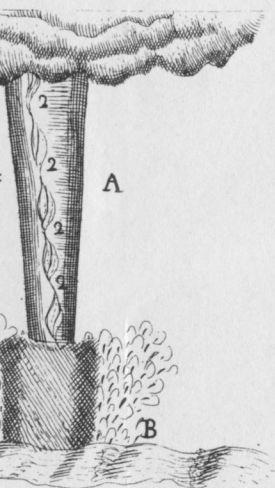
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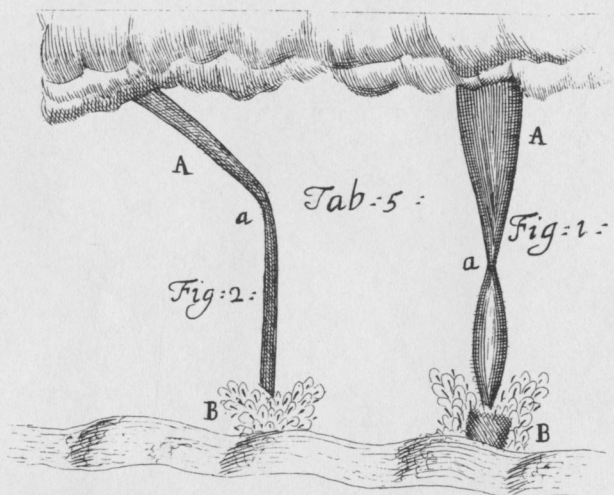




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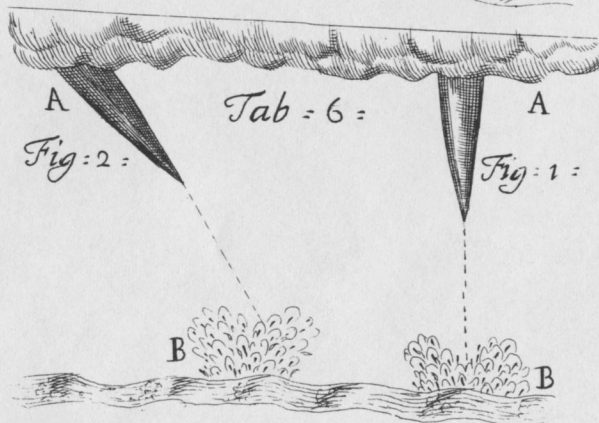


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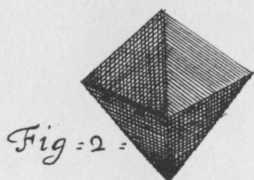
Fig: 1:



Tab: 6:

Fig: 2:

Fig: 1:



particles millions of times bigger than themselves, and destroy and dissolve those most curious Bodies that are so fearfully and so wonderfully made. Neither will I conjecture why they should lie so long, commonly 3 Weeks or a month, and oftentimes much longer, before that they begin to stir; why Water, or Beer, or any Cold Liquid is against them, &c. because that such things cannot certainly be known but by great Niceness, and repeated Labour and Inspection. 'Tis pity that the most Noble of Creatures lyes at the Mercy of the most ignoble of particles; and most wonderful that a few Atoms should be able to destroy a whole World, millions of times bigger than themselves.

*Roger Moubray*, mention'd in my last Letter, did not live in 1390, as I writ by mistake, but in 1100; so that what I said about some Reliques of old Forests of Fir then standing in these Levels, is more observable than I thought of.

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*V. Part of a Letter from Mr Alex. Stuart, (a Physician) to the Publisher, concerning some Spouts he observed in the Mediterranean.*

S I R,

**I** Presume to send you the following Accompt of some Water-spouts (as they are commonly called) which I saw lately in the *Mediterranean Sea*.

The 27th of *August*, 1701. being upon the Coast of *Barbary*. to the Northward of the Town of *Bona*, upwards of 10 Leagues distance at Sea, about 7 a Clock at night, shortly after Sun-setting appeared in the N. E. (which was directly up the Gulf of *Lyons* from us) great and continued Flashes of Lightning one after another, without hardly any intermission,

miffion, and this without Thunder continued till the next morning ; the Flafhes of Lightning fometimes representing the fudden appearance of a Star, at other times of a Flaming Sword, and again of a filver Cord ftretched along the Clouds, or as the irregular rents of a Vyal from top to bottom.

About 8 next morning we had Thundring, with a continuation of Lightning of the kind and appearance above-mentioned, all from the N. E. or thereby.

About 9 the fame morning, fell down from the Clouds (which lookt difmally black, lowring, and as it were heavy with Rain) in the faid N. E. quarter, three Waterspouts (as commonly called) that in the middle being the greateft feem'd fo big as the maft of a Ship, and I judg'd it to be at leaft a League and a half diftant from us ; fo that in it felf no doubt it was bigger than three Mafts. The other two were not by half fo big. All of them black, as the Cloud from whence they fell. All of them fmooth, without any knot or irregularity ; only at firft falling, fome fell perpendicularly down, and fome obliquely, and all of them fmaller at the lower end than above, giving the representation of a Sword ; fometimes alfo one of 'em would bow it felf, and again become ftrait, and alfo fometimes became fmaller, and again increafed its bulk ; fometimes it would difappear, and immediately fall down again ; fometimes it became extenuated to the fmallnefs of a Rope, and again became grofs as before.

There was always a great boyling and flying up of the Water of the Sea, as in a *Jette d'eau*, or Water-work ; or this rifing of the Water had the appearance of a fmoaking Chimney in a calm day. Some yards above the furface of the Sea the Water flood as a Column or Pillar and then fpread it felf, and was diffipated as fmoak : And the Sword-like Spout from the Clouds either came down to the very middle of this pillar, and as it had been joyned with it, as the greateft, which fell perpendicularly  
down

down, still did from beginning to end : Or else it pointed to this Column of Water, at some distance, either in a perpendicular or oblique Line, as did the other two lesser.

There were three or four Spouts more, which appeared at the same time in the same quarter of the Heavens, but neither for bulk or duration like to these three : Those appeared or disappeared several times, during the Continuance of these three aforesaid.

It was hardly distinguishable whether the Sword-like Spout fell first down from the Cloud, or the Pillar of Water rose first from the Sea, both appearing opposite to one another all of the sudden, as in the twinkling of an Eye. Only I observed of one, that the Water boyled up from the Sea to a great height, without the least appearance of a Spout pointing to it either perpendicularly or obliquely, and here the Water of the Sea never came together in the form of a Pillar or Column, but did fly up scatteredly, the Sea being in a boyling rage round the place. The Wind being then N. E. the said boyling advanced towards the S. W. as a flitting or moving Bush upon the surface of the Sea, and at last ceased. This proves that the boyling or flying up of the Water of the Sea may begin before the Spout from the Cloud appears to us : and indeed if there be any small matter of priority betwixt these two appearances, the boyling or throwing up of the Sea-Water has it : Which begins first to boyl, and then frames it self into a Pillar of Water, especially on the lower part thereof.

It was observable of all of them, but more perceptible of the great one, that towards the end it began to appear like a hollow Canal, only black in the borders, but white in the middle ; and tho at first it was altogether black and opaque, yet no one could very distinctly perceive the Sea Water to fly up alongst the middle of this Canal, as Smoak up a Chimney, and that with great swiftnes, and

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very

very perceptible motion : And then shortly after the Spout or Canal brake in the middle, and disappeared by little and little, the boyling up, yea, the Pillar-like form of the Sea-Water continuing still the last, yea, for some considerable time after the Spout disappeared, and perhaps till the Spout appeared again, or reformed it self, which it commonly did in the same place as before, breaking and forming it self again several times in a quarter of an hour, or half an hours time.

The middle one of the three, as I have said, exceeded all the rest in Bigness, Perpendicularity, Constancy of Form and Situation, as well as Duration ; but at last vanished, as is above set down.

I know not, Sir, if any has accompted for this *Phænomenon*, but I imagine it may be solved by Succſion ( improperly so called ) or rather Pulfion, as in the application of a Cupping-glass to the Flesh, the Air being first voided by the kindled Flax.

I have subjoyned the Figures of the Spouts as exactly as I could.

It is further observable ( which I had almost forgot ) That the oblique Spouts pointed always from the Wind ; that is, that the Wind being at N. E. the oblique Spouts always pointed to the S. W. tho at the same time and moment there were others perpendicular, which remained still so, notwithstanding the Wind.

Also that such as were curved had still the Convex side from the Wind, and the Concave towards it ; that is, the Wind being at N. E. the Concave was towards the N. E. and the Convex towards the S. W.

It rained a great deal during the continuance of these Spouts, and after their total disappearance we had half an hours violent gale of Wind from the N. E. with very little Rain, thereafter the Weather cleared up.



*The Explication of the Tables.*

## Tab. 1.

- A The Spout of a Black Colour, falling out of a Black Cloud perpendicularly.
- B The Water of the Sea, rising in the form of a Pillar or Column in the middle, and scattered round about the said middle Column, in form of Smoak, or rather like the falling of a *Jette d' eau*. These two meet one another directly, and the Column of Water from the Sea is commonly groffer than the Spout from the Clouds.

## Tab. 2.

- A a Curved Spout, joining with the rising Water of the Sea at B.

## Tab. 3. Fig. 1.

- A In Fig. 1. represents a Black Spout, falling obliquely from the Clouds of the same colour.
- B Represents the ascending Column of the Sea Water as in Tab. 1. With this difference that here the Spout and Column of Water meet not.

## Fig. 2.

E and W in this Fig. 2. signifie East and West.

- 1 2 3 Represent the successive progression of the boyling of the Sea from East to West, or from N. E. to S. W. and that without any appearance of a Spout from the Clouds, pointing to either of these places.

## Tab. 4.

- A Represents the big perpendicular Spout a little before its breaking, white in the middle.
- B The Column of Sea Water joining therewith.
- 2 2 2 2 The Water of the Sea, ascending in the form of Smoak up a Chimney, all alongst the Column at B to the Clouds.

Tab. 5. Fig. 1.

- A The breaking of a perpendicular Spout, commonly beginning in the middle at a.
- B The rise of the Sea Water which begins to fail, and the middle Column to disappear.

Fig. 2.

- A an Oblique Spout, which after reaching to the Sea in a Curved Line or Obtuse Angle, does shortly after break at a, and disappears.
- B The rising of the Sea Water also beginning to cease.

Tab. 6. Fig. 1.

- A a perpendicular Spout beginning to fall.
- B The beginning ascent of the Water of the Sea under it.

Fig. 2.

- A One Oblique Spout beginning or darting itself out of the Clouds.
- B The rising or boyling of the Water, answering to it in an oblique Line.

These sometimes reach down to the Sea or rising Water, and sometimes they do not reach thither, but continue a while as here represented.

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